

AMENDMENTS TO THE CLAIMS:

1-18. (Canceled).

19. (Currently Amended) A compact cooling system, comprising:

a radial fan having an axis, said radial fan directing air flow outwardly away from said fan axis;

a first heat exchanger and a second heat exchanger, said heat exchangers being disposed around said radial fan with first and second headers extending generally in the same direction as said fan axis, said heat exchangers each having:

an inlet in said first header,

an outlet in one of said first and second headers,

a plurality of flat tubes extending between said first and second headers, said plurality of tubes:

being substantially parallel between first and second end tubes of said plurality of flat tubes,

adapted to carry a fluid between said first and second headers, and

spaced from a system front to a system back across said air flow, and

said first header including a portion extending beyond one of said first and second end tubes whereby said inlet is in said extending portion of said first header;

a system inlet;

a first rectangular tube connecting said system inlet to said inlet in said extending portion of said first heat exchanger, said first rectangular tube being proximate and in line with said one of said first and second end tubes of said first heat exchanger and generally disposed in a space along said fan axis bounded by the ends of said extending portion of said one of said first and second headers of said first heat exchanger; and

a second rectangular tube connecting said system inlet to said inlet in said extending portion of said second heat exchanger, said second rectangular tube being proximate and in line with said one of said first and second end tubes of said second heat exchanger and generally disposed in a space along said fan axis bounded by the ends of said extending portion of said one of said first and second headers of said second heat exchanger;

wherein said first and second rectangular tubes have a major dimension and minor dimension, with said minor dimension extending generally parallel to said fan axis.

20. (Previously Presented) The cooling system of claim 19, wherein said first heat exchanger and said second heat exchanger are disposed with one header of said first heat exchanger against one header of said second heat exchanger whereby air flow between said one headers is prevented.

21. (Previously Presented) The cooling system of claim 19, further comprising fins between said flat tubes.

22. (Previously Presented) The cooling system of claim 21, wherein said fins are serpentine.

23. (Previously Presented) The cooling system of claim 19, wherein said space along said fan axis bounded by the ends of said extending portion of said one of said first and second headers of said first heat exchanger generally coincides with said space along said fan axis bounded by the ends of said extending portion of said one of said first and second headers of said second heat exchanger.

24. (Canceled)

25. (Currently Amended) The cooling system of claim ~~24~~ 19, wherein said minor dimension is generally no larger than the spacing between the ends of said extending portion of said one of said first and second headers of said first and second heat exchangers.

26. (Currently Amended) The cooling system of claim ~~24~~ 19, wherein said first and second rectangular tubes have a flat face extending in the direction of said major dimension, and said flat face is proximate said one of said first and second end tubes.

27. (Previously Presented) The cooling system of claim 19, further comprising:

a second portion in said one of said first and second headers extending beyond one of said first and second end tubes in said one of said first and second headers of each of said first and second heat exchangers;

a system outlet;

a third rectangular tube connecting said system outlet to said outlet in said second extending portion of said first heat exchanger, said third rectangular tube being proximate and in line with one of said first and second end tubes of said first heat exchanger and gener-

ally disposed in a space along said fan axis bounded by the ends of said second extending portion of said one of said first and second headers of said first heat exchanger; and

a fourth rectangular tube connecting said system outlet to said outlet in said second extending portion of said second heat exchanger, said second rectangular tube being proximate and in line with said one of said first and second end tubes of said second heat exchanger and generally disposed in a space along said fan axis bounded by the ends of said second extending portion of said one of said first and second headers of said second heat exchanger.

28. (Previously Presented) The cooling system of claim 27, wherein said first and second rectangular tubes are proximate said first end tubes of said first and second heat exchangers and said third and fourth rectangular tubes are proximate said second end tubes of said first and second heat exchangers.

29. (Currently Amended) ~~The~~ A compact cooling system of ~~claim 28, comprising:~~

a radial fan having an axis, said radial fan directing air flow outwardly away from said fan axis;

a first heat exchanger and a second heat exchanger, said heat exchangers being disposed around said radial fan with first and second headers extending generally in the same direction as said fan axis, said heat exchangers each having:
an inlet in said first header,
an outlet in one of said first and second headers,
a plurality of flat tubes extending between said first and second headers, said plurality of tubes:
being substantially parallel between first and second end tubes of said plurality of flat tubes,
adapted to carry a fluid between said first and second headers, and
spaced from a system front to a system back across said air flow, and
said first header including a portion extending beyond one of said first and second end tubes whereby said inlet is in said extending portion of said first header;
a second portion in said one of said first and second headers extending beyond one of said first and second end tubes in said one of said first and second headers of each of said first and second heat exchangers;

a system inlet;

a system outlet;

a first rectangular tube connecting said system inlet to said inlet in said extending portion of said first heat exchanger, said first rectangular tube being proximate and in line with said one of said first and second end tubes of said first heat exchanger and generally disposed in a space along said fan axis bounded by the ends of said extending portion of said one of said first and second headers of said first heat exchanger; and

a second rectangular tube connecting said system inlet to said inlet in said extending portion of said second heat exchanger, said second rectangular tube being proximate and in line with said one of said first and second end tubes of said second heat exchanger and generally disposed in a space along said fan axis bounded by the ends of said extending portion of said one of said first and second headers of said second heat exchanger.

a third rectangular tube connecting said system outlet to said outlet in said second extending portion of said first heat exchanger, said third rectangular tube being proximate and in line with one of said first and second end tubes of said first heat exchanger and generally disposed in a space along said fan axis bounded by the ends

of said second extending portion of said one of said first and second headers of said first heat exchanger; and
a fourth rectangular tube connecting said system outlet to said outlet in said second extending portion of said second heat exchanger, said second rectangular tube being proximate and in line with said one of said first and second end tubes of said second heat exchanger and generally disposed in a space along said fan axis bounded by the ends of said second extending portion of said one of said first and second headers of said second heat exchanger,

wherein

said first and second rectangular tubes are proximate said first end tubes of said first and second heat exchangers and said third and fourth rectangular tubes are proximate said second end tubes of said first and second heat exchangers,
and

said system inlet is at said system front and said system outlet is at said system back.

30-33. (Canceled)

34. (Currently Amended) A compact cooling system, comprising:

a radial fan having an axis, said radial fan directing air flow outwardly away from said fan axis;

four heat exchangers ~~according to claim 30~~, three of said heat exchangers each comprising

a plurality of generally flat members joined along longitudinal sides to define tube passages between joined flat members, adjacent flat members defining different tube passages being connected at their ends, said flat members including first and second end flat members between which the other of the plurality of generally flat members are disposed;

first and second headers at opposite ends of said flat members enclosing said defined tube passages;

an inlet in said first header;

an outlet in one of said first and second headers;

one of said first and second headers including a portion extending beyond the first end flat member whereby one of said inlet and outlet is in said extending portion of said one of said first and second headers;

a first rectangular connector for connecting a first exterior line to
said one of said inlet and outlet in said header extending
portion, said first rectangular connector being proximate
and in line with said first end flat member and having a
major dimension and a minor dimension, wherein said major
dimension generally coincides with the width of the flat
members;

said heat exchangers being arranged in a box-shaped envelope about
said radial fan with said headers of said heat exchangers extend-
ing generally in the same direction as said fan axis with adjacent
headers of said heat exchangers being disposed against one an-
other whereby air flow between said adjacent headers is pre-
vented.

35. (New) The cooling system of claim 34, wherein, for each
of said three heat exchangers, said minor dimension is generally no larger than
the spacing between the ends of said extending portion of said one of said first
and second headers of said heat exchanger.

36. (New) The cooling system of claim 34, wherein, for each of said three heat exchangers, said first rectangular connector has a flat face extending in the direction of said major dimension, and said flat face is proximate said first end flat member.

37. (New) The cooling system of claim 34, each of said three heat exchangers further comprising a second rectangular connector for connecting a second exterior line to the other of said inlet and outlet in another header extending portion, said second connector being proximate and in line with the second end flat member.